

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Naganori Numao

Serial No.: 09/899,030

Filed: July 6, 2001

For: PREDICTION OF UNKNOWN
BIOLOGICAL FUNCTION OF
THE ACTIVE SITE IN
PROTEINS OR/AND
POLYNUCLEOTIDES, AND ITS
UTILIZATION



: Art Unit: To be assigned

: Examiner: To be assigned

: Atty Docket: 21776/0061

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying form PTO-1449 are a number of documents which may be considered relevant to the examination of this application. A copy of each of these documents is provided. It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

Respectfully submitted,

George R. Pettit, Reg. No. 27,369
Connolly Bove Lodge & Hutz LLP
1990 M Street, N.W.
Washington, D.C. 20036-3425
Telephone: 202-331-7111

Date: 10/04/01

FORM PTO-1449

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INFORMATION DISCLOSURE CITATION

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U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
	AA						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Trans-lation
	AB	EP 0494502	07/1992	Europe			

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

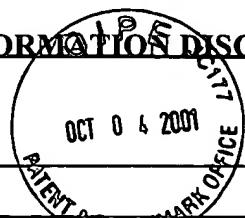
AC	Lacey, Jr. et al., "Concepts Related to the Origin of Coded Protein Synthesis", Chemtracts-Biochemistry and Molecular Biology, Vol. 12, 1999, pps. 398-418
AD	Kunin, "A System Of Two Polymerases - A Model For The Origin Of Life", Origins of Life and Evolution of the Biosphere, Vol. 30, 2000, pps. 459-466
AE	Bairoch et al., "The SWISS-PROT Protein Sequence Data Bank", Nucleic Acids Research, Vol. 20, 1992, pps. 2019-2022
AF	Sternberg, "PROMOT: a FORTRAN Program to Scan Protein Sequences Against A Library of Known Motifs", CABIOS, Vol. 7, No. 2, 1991, pps. 257-260
AG	Doolittle et al., "Computer-Based Characterization of Epidermal Growth Fractor Precursor", Nature, Vol. 307, 1984, pps. 558-560
AH	Veljković et al., "Is It Possible to Analyze DNA and Protein Sequences by the Methods of Digital Signal Processing?", IEEE, Vol. BME-32, No. 5, 1985 pps. 337-341
AI	Veljković et al., "A Novel Method of Protein Analysis For Prediction of Biological Function: Application To Tumor Toxins", Cancer Biochem. Biophys., Vol. 9, 1987, pps. 139-148
AJ	Cosic, "Macromolecular Bioactivity: Is It Resonant Interaction Between Macromolecules?-Theory and Applications", IEEE, Vol. 41, No. 12, 1994, pps. 1101-1114
AK	Numao et al., "Prediction of the Active Sites of Proteins from Amino Acid Sequences", Biol. Pharm. Bull., Vol. 16, No. 11, 1993, pps. 1160-1163
AL	Zasloff, "Magainins, a Class of Antimicrobial Peptides From <i>Xenopus</i> Skin: Isolation, Characterization of Two Active Forms, and Partial cDNA Sequence of a Precursor", Proc. Natl. Acad. Sci. USA, Vol. 84, 1987, pps. 5449-5453
AM	Numao et al., "Biological Activities of 1,1,6-Trisubstituted Indanes: Beyond Magainin 2", Biol. Pharm. Bull., Vol. 22, No. 1, 1999, pps. 73-76
AN	Wetzel et al., "Mutational Analysis of the C-terminus of Human Interferon-γ", Protein Engineering, Vol. 3, No. 7, 1990, pps. 611-623
AO	Aguet et al., "Molecular Cloning and Expression of the Human Interferon-γ Receptor", Cell, Vol. 55, 1988, pps. 273-280
AP	Laughon et al., "Primary Structure of the <i>Saccharomyces cerevisiae</i> GAL4 Gene", Molecular and Cellular Biology, Vol. 4, No. 2, 1984, pps. 260-267
AQ	Johnston, "A Model Fungal Gene Regulatory Mechanism: the GAL Genes of <i>Saccharomyces Cerevisiae</i> ", Microbiological Reviews, Vol. 51, No. 4, 1987, pps.458-476
AR	Bram et al., "A GAL Family of Upstream Activating Sequences in Yeast: Roles In Both Induction and Repression of Transcription", EMBO Journal, Vol. 5, No. 3, 1986, pps. 603-608

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 600. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant(s).

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U.S. PATENT DOCUMENTS

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AS						

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Sub-Class	Translation
AT						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AU	Weiss et al., "RNA Aptamers Specifically Interact with the Prion Protein PrP", Journal of Virology, Vol. 71, No. 11, 1997, pps. 8790-8797
AV	Knight et al., "A Polymorphism That Affects OCT-1 Binding to the TNF Promoter Region is Associated With Severe Malaria", Nature Genetics, Vol. 22, 1999, pps. 145-150
AW	Oshima, "The Phosphatase System In <i>Saccharomyces cerevisiae</i> ", Genes Genet. Syst., Vol. 72, 1997, pps. 323-334
AX	Holmes et al., "Cloning And Expression Of The Gene For Pro-Urokinase In Escherichia Coli", Bio/Technology, Vol. 3, 1985, pps. 923-929
AY	Wells et al., "Cloning, Sequencing, and Secretion of <i>Bacillus amyloliquefaciens</i> Subtilisin in <i>Bacillus Subtilis</i> ", Nucleic Acids Research, Vol. 11, No. 22, 1983, pps. 7911-7925
AZ	Prusiner, "Prions", Proc. Natl. Acad. Sci. USA, Vol. 95, 1998, pps. 13363-13383
BA	Westaway et al., "Prions", Proc. Natl. Acad. Sci. USA, Vol. 95, 1998, pps. 11030-11031
BB	Forloni et al., "Neurotoxicity of a Prion Protein Fragment", Nature, Vol. 362, 1993, pps. 543-546
BC	Kunz et al., "Neurotoxicity of Prion Peptide 106-126 Not Confirmed", FEBS Letters 458, 1999, pps. 65-68
BD	Brown et al., "Antioxidant Activity Related to Copper Binding of Native Prion Protein", Journal of Neurochemistry, Vol. 76, 2001, pps. 69-76
BE	Ponte et al., "A New A4 Amyloid mRNA Contains A Domain Homologous to Serine Proteinase Inhibitors", Nature, Vol. 331, 1988, pps. 525-527
BF	Kitaguchi et al., "Novel Precursor of Alzheimer's Disease Amyloid Protein Shows Protease Inhibitory Activity", Nature, Vol. 331, 1988, pps. 530-532
BG	Cunningham et al., "High-Resolution Epitope Mapping of hGH-Receptor Interactions by Alanine-Scanning Mutagenesis", Science, Vol. 244, 1989, pps. 1081-1085
BH	Volchkov et al., "GP mRNA of Ebola Virus Is Edited by the Ebola Virus Polymerase and by T7 and Vaccinia Virus Polymerases", Virology, Vol. 214, 1995, pps. 421-430
BI	
BJ	

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